Translation





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		
92 213 a/se	FOR FURTHER ACTION Pro	e Notification of Transmittal of International eliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/mont	h/year) Priority date (day/month/year)
PCT/EP2002/001782	20 February 2002 (20.02.2	2002) 20 February 2002 (20.02.2002)
International Patent Classification (IPC) or n B62D 65/00, B65G 49/04	ational classification and IPC	
Applicant	DÜRR SYSTEMS GME	ВН
 This international preliminary examinand is transmitted to the applicant according. 	nation report has been prepared by the cording to Article 36.	his International Preliminary Examining Authority
2. This REPORT consists of a total of	8 sheets, including thi	s cover sheet.
	d by ANNEXES, i.e., sheets of the of this report and/or sheets containing administrative Instructions under the	description, claims and/or drawings which have been rectifications made before this Authority (see Rule PCT).
These annexes consist of a total		
3. This report contains indications relations	ng to the following items:	
I Basis of the report		
II Priority		
III Non-establishment of	opinion with regard to novelty, inve	entive step and industrial applicability
IV Lack of unity of inven		
V Reasoned statement we citations and explanate	nder Article 35(2) with regard to not one supporting such statement	velty, inventive step or industrial applicability;
VI Certain documents cité		
VII Certain defects in the	nternational application	
VIII Certain observations o	n the international application	·
		·
Date of submission of the demand	Date of comp	letion of this report
27 August 2003 (27.08.20		10 March 2004 (10.03.2004)
Name and mailing address of the IPEA/EP	Authorized of	ficer
Facsimile No.	Telephone No	

		f the re		4
1. \	With r	egard to	the elements of the international application:*	
	X	the inte	mational application as originally filed	
Ī	X	the desc	cription:	
		pages	1-26 , as originally filed	۱
		pages	, filed with the demand	١
		pages	, filed with the letter of	-
	\boxtimes	the clai	ms:	١
		pages	1-33 , as originally filed	
		pages	, as amended (together with any statement under Article 19	
		pages	, filed with the demand	
		pages	, filed with the letter of	-
	\boxtimes	the drav		,
		pages	1/11-11/11 , as originally filed , filed with the demand	.
		pages		
		pages	, filed with the letter of	-
	∐ tì	he seque	ence listing part of the description:	.
		pages	, as originally file	1
		pages	, filed with the demand	<u>'</u>
		pages	, filed with the letter of	-
2.	the in	nternatio	to the language, all the elements marked above were available or furnished to this Authority in the language in which and application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language which is	
		the lar	aguage of a translation furnished for the purposes of international search (under Rule 23.1(b)).	
			nguage of publication of the international application (under Rule 48.3(b)).	
		the lan	nguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and	1/
3.	With	regard	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:	al
		contai	ned in the international application in written form.	
		filed t	ogether with the international application in computer readable form.	
		furnis	hed subsequently to this Authority in written form.	
			hed subsequently to this Authority in computer readable form.	
		intern	statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the ational application as filed has been furnished.	
			statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.	as
4.		The a	mendments have resulted in the cancellation of:	
1			the description, pages	
1			the claims, Nos.	
			the drawings, sheets/fig	
5.	. 🔲	This r beyon	eport has been established as if (some of) the amendments had not been made, since they have been considered to a d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	go
•	in ti	his repo	t sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.	to 16
		70.17). replace	ment sheet containing such amendments must be referred to under item I and annexed to this report.	
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INTERNATIONAL PRELIM ARY EXAMINATION REPORT



IV. Lack of unity of invention	1 C17L1 2002/001782
In response to the invitation to restrict or pay additional fees the applicant has:	
restricted the claims.	
paid additional fees.	
paid additional fees under protest.	
neither restricted nor paid additional fees.	
This Authority found that the requirement of unity of invention is not complied with not to invite the applicant to restrict or pay additional fees.	and chose, according to Rule 68.1,
This Authority considers that the requirement of unity of invention in accordance with Ru complied with.	les 13.1, 13.2 and 13.3 is
not complied with for the following reasons:	
See supplemental sheet	
	•
sequently, the following parts of the international application were the subject of internati tablishing this report:	onal preliminary evenings
all parts.	onal premininary examination
M	
the parts relating to claims Nos1-21	,

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV.3.

Lack of unity of invention

- 1. The International Searching Authority has determined that the present international application contains two groups of inventions, namely:
 - 1. Claims 1-21: DEVICE WITH A MODULAR DESIGN FOR HANDLING WORKPIECES:
 - 2. Claims 22-33: METHOD FOR TRANSPORTING WORKPIECES BETWEEN TWO TRANSFER STATIONS.
- 2. Independent claims 1 and 22 share the following common technical features:
 - a device having a transport track with one or more handling areas for handling the surfaces of workpieces;
 - mounting carriages upon which the workpieces can be attached and which can be moved along the transport track.

These technical features constitute knowledge generally available to the person skilled in the art (see e.g. D1, D2, D3 or D4) and are thus not novel.

- 2.1. The technical feature that could possibly represent a contribution over the prior art by the device according to claim 1 (PCT Rule 13.2) lies in providing a device with a modular design, with
 - a first module comprising:
 - a transport track and
 - a guiding mechanism along the transport track,

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV.3.

- a second module comprising one ore more mounting carriages that can be moved along the guiding mechanism and
- various types of second modules, each of which can be combined with the first module.

This feature represents a solution to the problem of making the device for handling workpieces more flexible.

- 2.2. The technical features that could possibly represent a contribution over the prior art by the method according to claim 22 (PCT Rule 13.2) consist in the following method steps:
 - transporting a workpiece to a first transfer station by means of a first conveyor mechanism;
 - swinging a mounting carriage up around a swivel axis until the mounting carriage is supporting the workpiece;
 - passing along the transport track to a second transfer station with an additional, step-by-step rotation in order to bring the workpiece in or out of one or more handling areas;
 - swinging the mounting carriage down around the swivel axis in the area of the second transfer station; and simultaneously
 - transporting the workpiece away by means of a second conveyor mechanism;
 - transporting back to the first transfer station the mounting carriages, which have been pivoted approximately 90° from horizontal.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV.3.

The advantage of this method is that the space required for the entire device is minimized.

2.3. It is clear that the special technical features of the two groups of inventions are not the same. Since they solve different problems and have different effects, they also cannot be considered to be corresponding technical features.

For this reason, no technical relationship can be recognized among the inventions on the basis of these features and there is consequently a lack of unity of invention (PCT Rule 13.1 to 13.3).

3. The Examining Division concurs with the objection raised by the Search Division with regard to a lack of unity of invention.

INTERNATIONAL PRELITARY EXAMINATION REPORT

Intern	l application No.
PCT)	02/01782

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-21	YES
		Claims		NO
	Inventive step (IS)	Claims	8, 9, 11-21	YES
		Claims	1-7, 10	NO NO
	Industrial applicability (IA)	Claims	1-21	YES
		Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: EP-A-0 030 882 (RENAULT) 24 June 1981 (1981-06-24)

D2: US-A-4 928 383 (KACZMAREK JAMES S ET AL) 29 May 1990 (1990-05-29)

D3: DE 39 06 857 A (TSUBAKIMOTO CHAIN CO) 3 May 1990 (1990-05-03)

D4: DE 196 41 048 A (FLAEKT AB) 16 April 1998 (1998-04-16), mentioned in the application.

- 1.1. Document D1 discloses (the references in parentheses are to D1):
 - a device for handling vehicle bodies (7), with a modular design with a first module comprising:
 - a transport track with a plurality of handling areas (15) for handling the vehicle bodies (7), and
 - a guiding mechanism (1) along the transport track
 (1),

and a second module comprising a plurality of mounting carriages, (2) upon which the vehicle bodies (7) can be attached and which can be moved along the guidance mechanism (1),

various types of second modules each being combinable with the first module (see page 1, lines 20-23).

The subject matter of claim 1 differs from the device according to D1 in that the handling areas comprise surface handling areas.

Since surface handling robots are standard elements of a vehicle body transport track, the subject matter of **claim 1** cannot be considered inventive (PCT Article 33(3)).

- 1.2. Since document D1 also discloses all of the features of claims 5-7 and 10, the subject matter of these claims also does not involve an inventive step (PCT Article 33(3)).
- 2. Since the different types of mounting carriages according to document D2 can be used in the device according to document D3 without encountering the technical difficulties that could not be remedied in the course of normal technical procedures, the subject matter of claims 1-4 does not involve an inventive step (PCT Article 33(3)).
- 3. The combination of features of dependent claims 8, 9 and 11-21 is not suggested by the prior art. These claims thus satisfy the PCT requirements with respect to novelty and inventive step (PCT Article 33(2) and (3)).